

CellPipe® 20H/20H-4 Series



This economical ATM-based IP CPE enables symmetrical high-speed data transport for small business and SOHO customers, which reduces upload times and helps enhance business productivity. The CellPipe® 20H enables data rates up to 2.3 Mbps over a single copper pair—while the CellPipe® 20H-4 offers rates up to 4.6 Mbps over a double copper pair. By providing these rates in both directions, the CellPipe® 20H and 20H-4 can support today's most sophisticated broadband services. Yet they're easy to configure remotely on customer premises.

Applications

- High-performance data and video services, including intranets, extranets, videoconferencing, Web hosting and fast Internet access
- Small businesses, SOHOs and other in-building installations that want high-speed symmetrical transport

Features

- **Symmetrical high-speed data rates**—Offers high-speed transport in both directions, using SHDSL connections:
 - CellPipe® 20H enables data rates up to 2.3 Mbps over a single copper pair.
 - CellPipe® 20H-4 enables data rates up to 4.6 Mbps over a double copper pair.
- **Easy LAN connectivity**—Provides four 10/100BaseT LAN interfaces that allow direct connection, along with auto-negotiation of the connected Ethernet type.

- **Quality of Service capabilities**—Maintains reliable performance for critical applications with ATM QoS, including UBR, CBR and VBR-nrt.
- **Simple remote configuration**—Streamlines service start up, using the console port, a telnet session or SNMP.
- **Minimize operating expenses**—Easy configuration and remote management capabilities keep your operating costs down.
- **Reliable performance**—ATM QoS capabilities help you maintain the performance levels your subscribers demand.
- **Customer retention**—Keep your customers satisfied by providing the value-added services they're looking for, supported by cost-effective high-speed symmetrical transport.

Benefits

- **Enhanced revenue**—Expand your service offerings and attract new subscribers by offering higher symmetrical connections over standard copper lines.
- **Application flexibility**—Enable business customers to increase efficiency with high-speed connections that support a full spectrum of applications—including faster access to the Internet and intranets, videoconferencing, streaming multimedia, Web hosting, network gaming and more.



Technical Specifications (continued)

Description	Specifications
1. Modes	IP router, IP bridge, DNS relay
2. Ports	
<i>SHDSL WAN (RJ-11)</i>	SHDSL with PAM16 line coding (ITU-G.991.2 Annex A and Annex B) supports wedding current range from 0.3mA to 3mA
<i>Ethernet LAN (4 x RJ-45)</i>	4 x Ethernet IEEE 802.3 (switch), 10/100Base-T auto sensing
3. Firewall	Masquerading (NAT/PAT) compliant to RFC 1631; DNS forwarding.
4. Quality of Service	ATM QoS support UBR, CBR, VBR-nrt VPI Range (0-4095) and VCI range (1-65535) Up to 8 PVCs in bridge and 5 PVCs in routing mode OAM F4/F5 loop back support
5. LAN protocols	
<i>IP:</i>	IP, ICMP, UDP, TCP, TFTP, RIP-1, RIP-2, DHCP, DNS, SNMP, HTTP, HTTPS
6. WAN protocols	PPPoE (RFC2516), PPPoA (RFC2364) (PAP and CHAP supported), and IP over ATM over SHDSL (RFC 2025/RFC1577), Multiprotocol over ATM (RFC2684/RFC 1483), IPoA (RFC 2225/RFC1577), PPPoE (RFC2516)
7. Transmission rates	
<i>LAN (maximum)</i>	100 Mbps, full duplex operation
<i>WAN (maximum)</i>	CellPipe® 20H 144 kbps up to 2.3 Mbps rate adaptive in both directions CellPipe® 20H-4 144 kbps up to 4.6 Mbps rate adaptive in both directions
8. Management	
<i>Outband</i>	Command-line interface, serial V.24
<i>Inband</i>	Telnet or SNMP management via SNMP V1, WAN or LAN access TFTP for firmware upgrade
9. Hardware	
<i>Power adapter</i>	12 V/DC, external power adapter
<i>Environment</i>	Temperature 5–45 °C; humidity 0–95 %; non-condensing
<i>Housing</i>	200 x 169 x 40 mm (B x H x T), robust plastic case, ports on the back, prepared for wall mounting
<i>Approvals</i>	EMC: CE EN300386 & FCC Part 15 class B Safety: EN60950 & CB

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